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A LICHEN NEW TO THE UNITED STATES.

BY EUGENE A. RAU.

Messrs. Eckfeldt & Calkins, in their list of the Lichen-Flora of Florida, published in a recent number of this Journal, include some rare and interesting species. In regard to their No. 297, Trypethelium heterochrous (Mont.) Tuck., very rare, introduced from Cuba, I would beg to remark that I collected this lichen in April. 1885, and sent specimens to Dr. Eckfeldt for identification. For the benefit of those who have opportunities to search for lichens in Florida, I will mention that this rare species was found along the shore of Lake Osceola, Winter Park, in Orange county, growing upon living branches of Nex Dahoon, Walt.

NEW WESTERN UREDINEÆ.

BY S. M. TRACY AND B. T. GALLOWAY.

Among the *Uredineæ* collected last summer by Tracy & Evans, we find the following species which appear to be new:

Uromyces arizonica, Tracy & Gal.—I. Hypophyllous; spots conspicuous, rather large, pale; æcidia numerous, in definite clusters, scattered or often crowded, small, short, border often somewhat coarsely torn; spores subglobose, epispore thin, smooth, 18—21 μ .—II and III. Epiphyllous; spots small, round or oval, reddish-brown, long covered by the epidermis.—II. Spores oval, pale, epispore thin, minutely echinulate, $20-22 \times 23-25 \mu$.—III. Spores globose or obovate, apex sometimes slightly thickened, brown, $20-22 \times 25-27 \mu$; pedicel one and a half to two times the length of the spores, hyaline, tapering towards the base. On leaves of *Eriogonum racemosum*, Flagstaff, Arizona, June 27, 1887.

Puccinia fragilis, Tracy & Gal.—III. Amphigenous; sori scattered, long covered by the epidermis, which at length is irregularly ruptured; spores broadly oval, dark brown, minutely roughened, 21—33 x 30—34 μ , apex rounded, obtuse, not thickened, very slightly constricted, pedicel less than half the length of the spore, hyaline, very fragile. On leaves of Arenaria pungens, Reno, Nevada, June 19, 1887.

Puccinia caulicola, Tracy & Gal.—II. Hypophyllous; sori very small, very numerous, covering the entire surface; spores subglobose, epispore thick, minutely roughened, usually with one or more prominent vacuoles, light brown, 15—17 x 20—22 μ .—III. On stems; sori scattered, usually elongated, black; spores oval, not constricted, 25—27 x 35—40 μ ; apex much thickened, nearly hyaline, often with a similar thickening on one side of the lower cell, smooth; pedicel nearly hyaline, very long, several times the length of the spores. On Salvia lanceolata, Canon City, Colo., Aug. 21, 1887.